	•		
	Application No.	Applicant(s)	
	09/676,681	MCMILLAN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Ted T. Vo	2122	
The MAILING DATE of this communication All claims being allowable, PROSECUTION ON THE MERI- herewith (or previously mailed), a Notice of Allowance (PTO NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATE of the Office or upon petition by the applicant. See 37 CFR 1. ☑ This communication is responsive to 7/9/24. 2. ☑ The allowed claim(s) is/are 1-21. 3. ☑ The drawings filed on 14 July 2003 are accepted by the second of	appears on the cover sheet w. TS IS (OR REMAINS) CLOSED in the propriate comm NT RIGHTS. This application is 1.313 and MPEP 1308.	ith the correspondence address n this application. If not included unication will be mailed in due co	urse. THIS
4. Acknowledgment is made of a claim for foreign prio	rity under 35 U.S.C. § 119(a)-(d)	or (f).	
a) ☐ All b) ☐ Some* c) ☐ None of the:			
 Certified copies of the priority documents 	s have been received.		
Certified copies of the priority documents	s have been received in Applicati	on No	
3. Copies of the certified copies of the prior	ity documents have been receive	ed in this national stage application	n from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING D noted below. Failure to timely comply will result in ABANI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	ATE" of this communication to fil DONMENT of this application.	e a reply complying with the requi	rements
 A SUBSTITUTE OATH OR DECLARATION must be INFORMAL PATENT APPLICATION (PTO-152) white 	submitted. Note the attached EX ch gives reason(s) why the oath o	AMINER'S AMENDMENT or NOT declaration is deficient.	TICE OF
6. CORRECTED DRAWINGS (as "replacement sheets			
(a) ☐ including changes required by the Notice of Draft		w (PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date _			
(b) ☐ including changes required by the attached Example Paper No./Mail Date		•	
Identifying indicia such as the application number (see 37 each sheet. Replacement sheet(s) should be labeled as su	ch in the header according to 37 C	FR 1.121(d).	
 DEPOSIT OF and/or INFORMATION about the attached Examiner's comment regarding REQUIREM 	deposit of BIOLOGICAL MAT MENT FOR THE DEPOSIT OF B	ERIAL must be submitted. Not OLOGICAL MATERIAL.	te the
	·		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 Motice of L	nformal Patent Application (PTO-	152)
 Induce of References Cited (F10-692) Induce of Draftperson's Patent Drawing Review (PTO) 	<u>=</u>	Summary (PTO-413),	·- - ,
2. Motice of Draitpersorts Faterit Drawing Neview (FTO	Paper No	./Mail Date	
Information Disclosure Statements (PTO-1449 or PTO Paper No./Mail Date	<u>_</u>	s Amendment/Comment	
4. Examiner's Comment Regarding Requirement for De		s Statement of Reasons for Allow	ance
of Biological Material	9. 🗌 Other	_ . _	
	Hot	rugis antonynging	reuBe-
		ANTONY NGUYEN-BA PRIMARY EXAMINER	

Art Unit: 2122

1. The amendment filed on 8/13/04 has been considered.

The amendment to independent Claims 1, 11 and 15, and the arguments given in Remarks section (pages 10-15) have been fully considered and overcome the rejections that were previously applied to the closest arts of record, Logan III (US Pat. No. 6,243,857).

Reasons for Allowance

2. Claims 1-21 are allowed.

Prior art of record, Logan III, discloses a flowchart mechanism (Machine control system that includes multi-block flowchart) that interacts between a flowchart editor and a connected machine/device. The flowchart mechanism allows code to be generated by using flowchart elements. Users edit the flowchart and generate whatever code for a process that operates and controls the device (figure 6A). Decision blocks are parts of the flowchart causing the execution of two different operational statuses of the device.

However, as pointed out by Applicants, in regard to the newly amended limitation of independent Claims 1, 11, and 15, "automatically detect relative frequencies at which said first and second operational statuses occur during a time period, that Logan III does not monitor a relative frequency at which a particularly flowchart block is executed (Remarks: page 11, second paragraph). As further pointed out by Applicants in regard to the Logan III's flowchart, that the errors identified in the machine control system are the errors that the debugger detects in the flowchart code, not used to automatically detect relative frequencies at which said first and second operational statuses occur during a time period (Remarks: page 11, third paragraph).

Therefore, the following is an examiner's statement of reasons for allowance:

The cited prior arts taken alone or in combination fail to teach the claimed invention comprising at least features:

Application/Control Number: 09/676,681

Art Unit: 2122

a reason code module associated with said flowcharting modules that assigns the first

Page 3

and second reason codes to said first and second flowchart blocks to automatically

detect relative frequencies at which said first and second operational statuses occur/

during a time period",

as recited in independent Claim 1, and in such manners in independent Claims 11, and 15.

3. Any inquiry concerning this communication or earlier communications from the examiner should

be directed to Ted T. Vo whose telephone number is (703) 308-9049. The examiner can normally be

reached on 8:00AM to 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan

Q. Dam can be reached on (703) 305-4552. The fax phone number for the organization where this

application or proceeding is assigned is 703-872-9306.

After October 28, 2004, examiner can be reached at new telephone number (571) 272-3706 and

the examiner's supervisor, Tuan Q. Dam can be reached on (571) 272-3694.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained from

either Private PAIR or Public PAIR. Status information for unpublished applications is available through

Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC)

at 866-217-9197 (toll-free).

TTV
Patent Examiner
Art Unit 2122
October 14, 2004

Horangen Centony nguyen Ba-ANTONY NGUYEN-BA PRIMARY EXAMINES